

Handwritten text in Urdu, possibly describing a process or a step in a calculation.

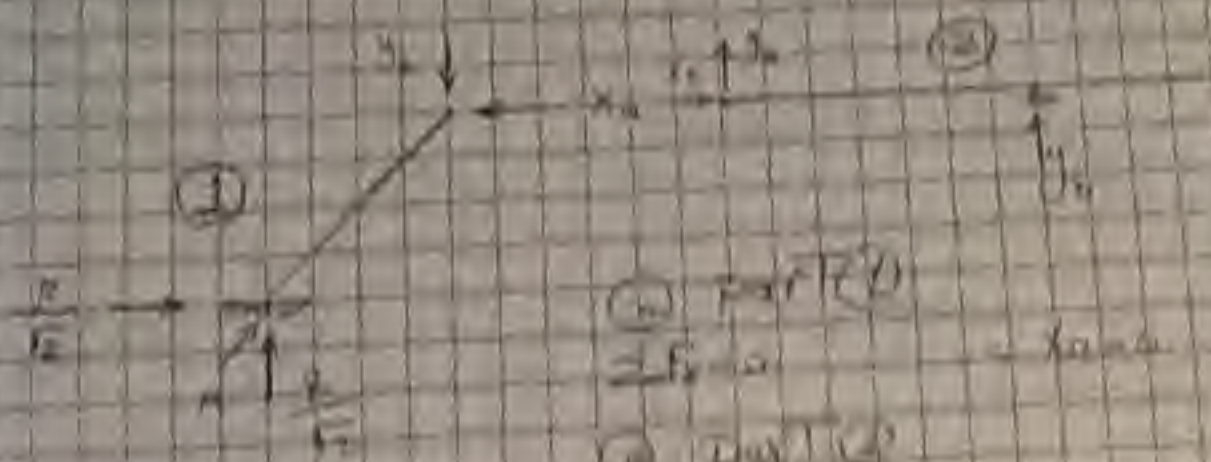
Handwritten text in Urdu, likely a list of items or a series of notes.

Handwritten text in Urdu, possibly a title or a section header.



Handwritten text in Urdu, possibly a description or a note related to the diagram.

Handwritten text in Urdu, likely a list of items or a series of notes.



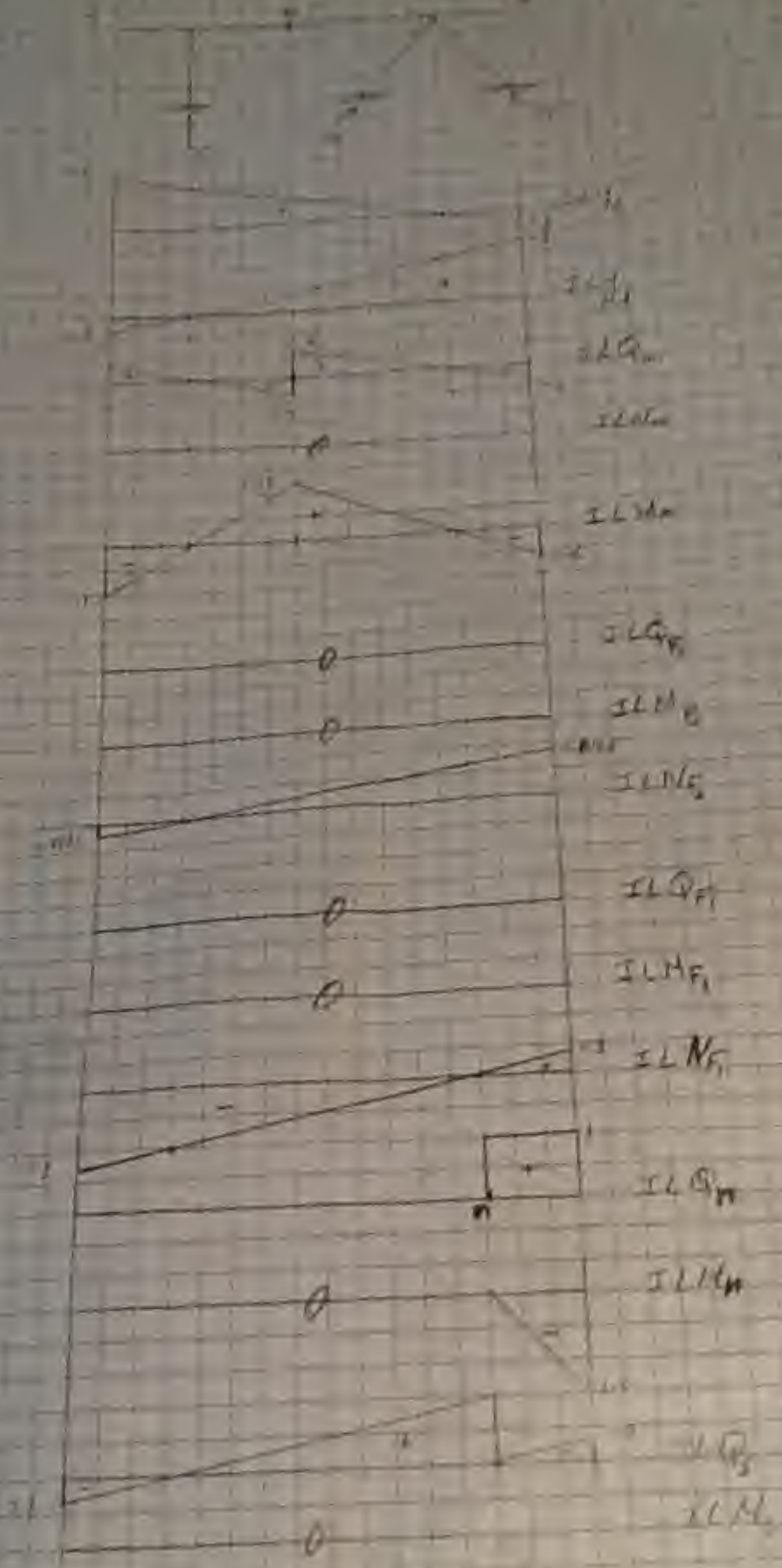
Handwritten text in Urdu, possibly a label or a note.

Handwritten text in Urdu, possibly a label or a note.

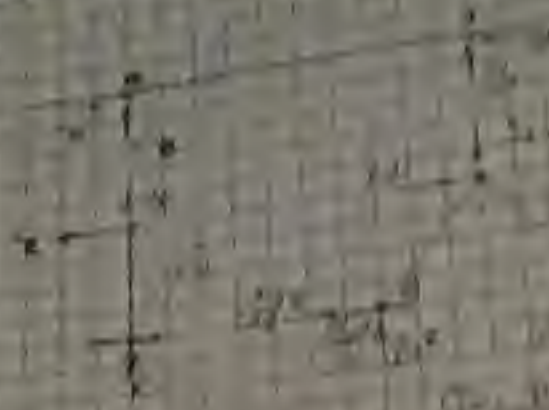
Handwritten text in Urdu, possibly a label or a note.

Handwritten text in Urdu, possibly a label or a note.









$Q = 0$   
 $M = 0$

$M = 0$   
 $F = 0$

$Q = 0$   
 $M = 0$

$R = F$

$E = 0$

$M = 0$

$(R, F) = (0, 0)$



$Q = 0$   
 $M = 0$   
 $N = 0$   
 $M = 0$

$Q = 0$   
 $M = 0$   
 $N = 0$   
 $M = 0$



$Q = 0$   
 $M = 0$   
 $N = 0$



$Q = 0$   
 $M = 0$   
 $N = 0$

$Q = 0$

$Q = 0$

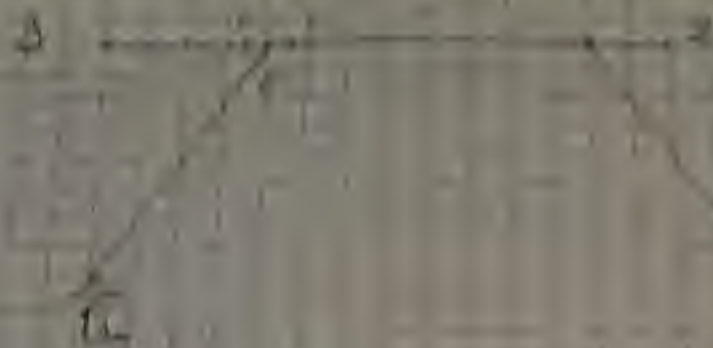
$Q = 0$

$Q = 0$

$Q = 0$

$Q = 0$

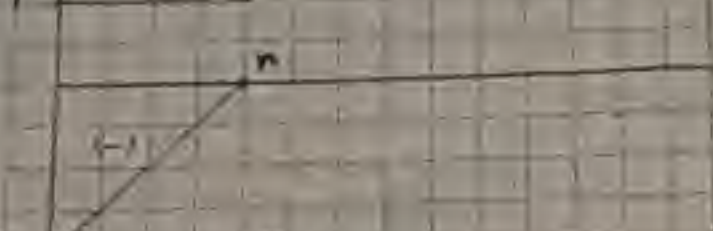




1.5  
1.5  
1.5



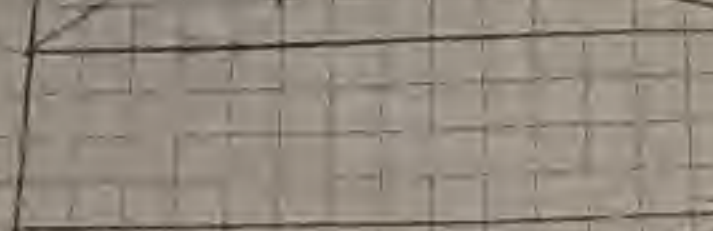
1.5



1.5



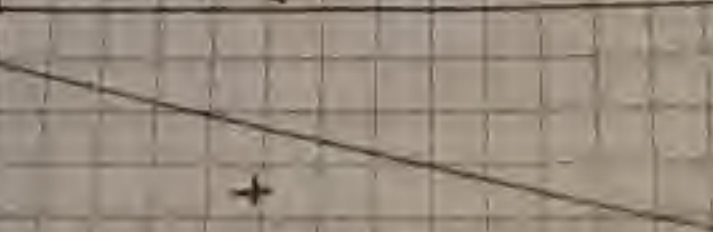
1.5



1.5



1.5



1.5



1.5



$\frac{1}{2} \times 10 \times 10 = 50$   
 $2 \times 10 \times 10 = 200$   
 $10 \times 10 = 100$   
 $\frac{1}{2} \times 10 \times 10 = 50$

$2M = 100$   
 $2J_0 = 100$   
 $2J_0 = \frac{100}{2} = 50$

$100 \times 2 = 200$   
 $200 \times 2 = 400$   
 $400 \times 2 = 800$

Section on Cantilever

Section on Cantilever

10 kg weight 5 m

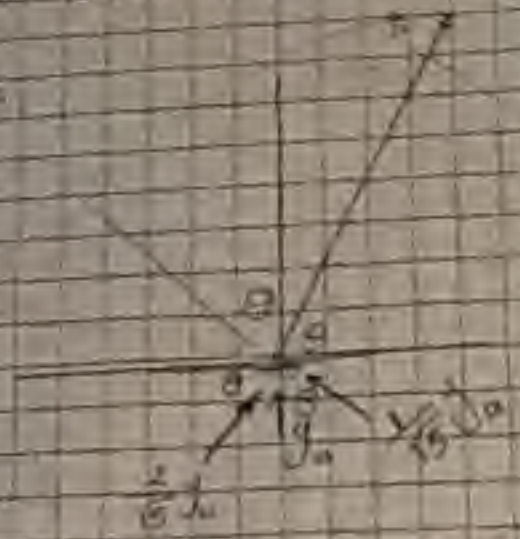
10 kg weight 5 m

Force

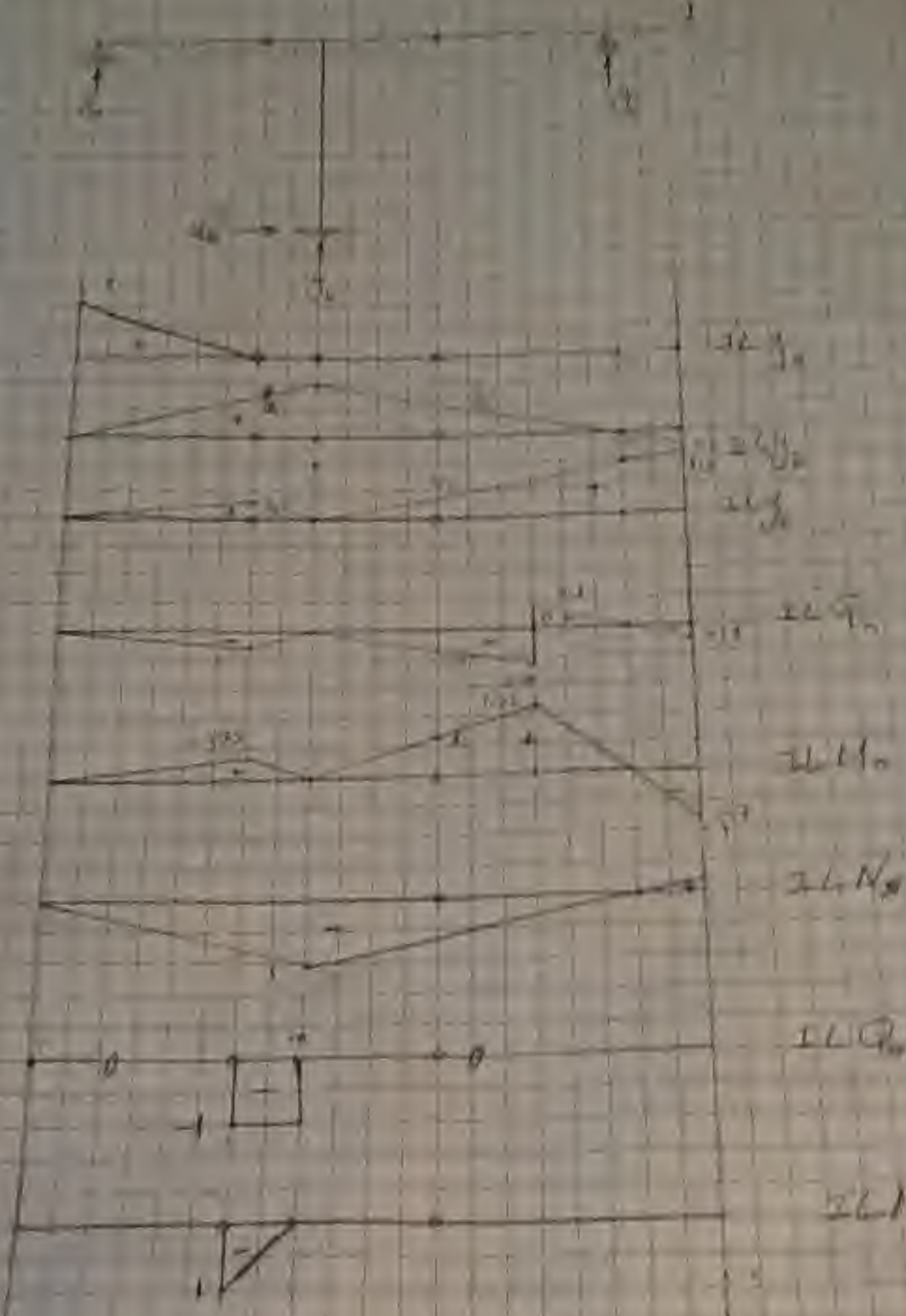
$Q_0 = 10$

Moment

$M_0 = 200$



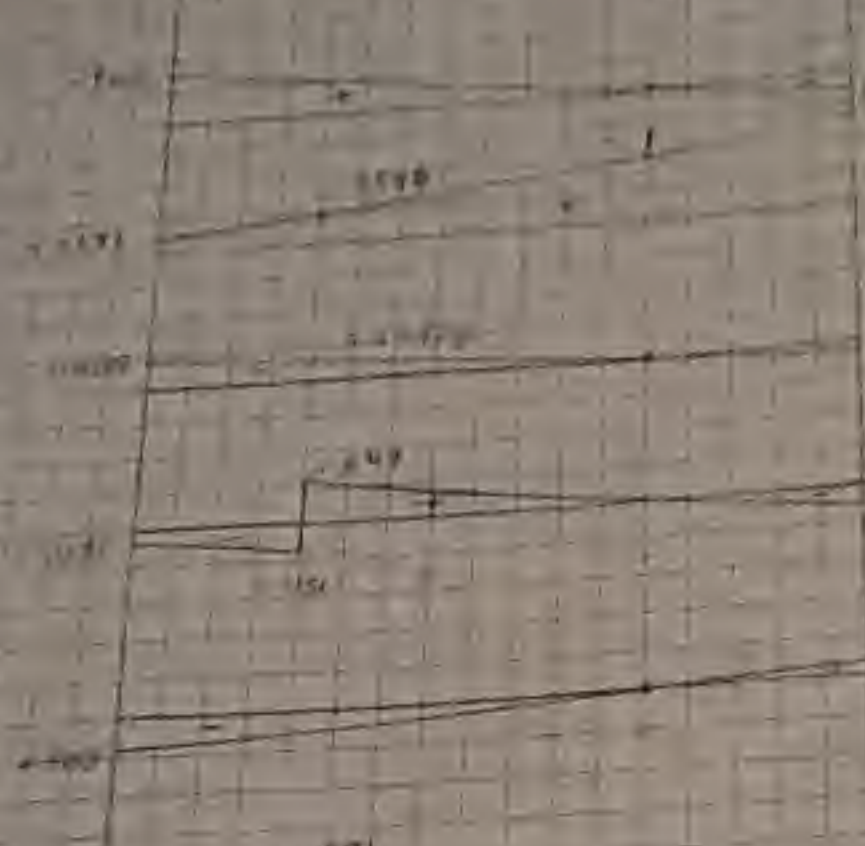










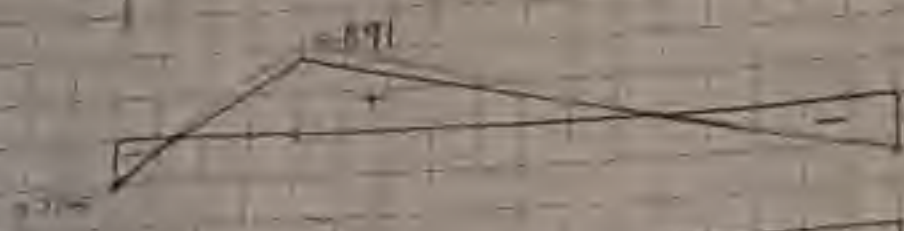


$$IL \Delta$$

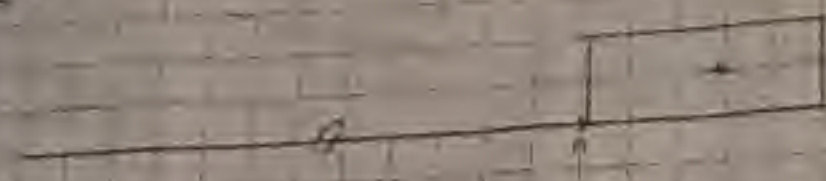
$$IL \Delta = \frac{1}{2} l \cdot 1 = \frac{l}{2}$$

$$IL Q$$

$$IL M$$



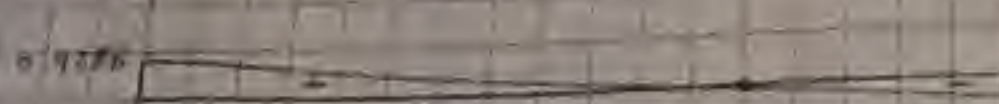
$$IL M$$



$$IL Q$$



$$IL M$$



$$IL Q$$



$$IL N$$



$$IL M$$





$\rightarrow \text{Max } T_{\text{top}}$   
 $\rightarrow \text{Max } T_{\text{top}} = \frac{1}{2} \times 2.5 \times 10^3$   
 $\rightarrow T_{\text{top}} = 1250$

Sec m	(+ve $\rightarrow$ $\pm$ ) L.H.S
$Q_m = +3a$	$Q_m = 3a$
$N_m = -X_b$	$N_m = -X_b$
$M_m = \frac{1}{2} X_b = 3X_b$	$M_m = 2X_b$

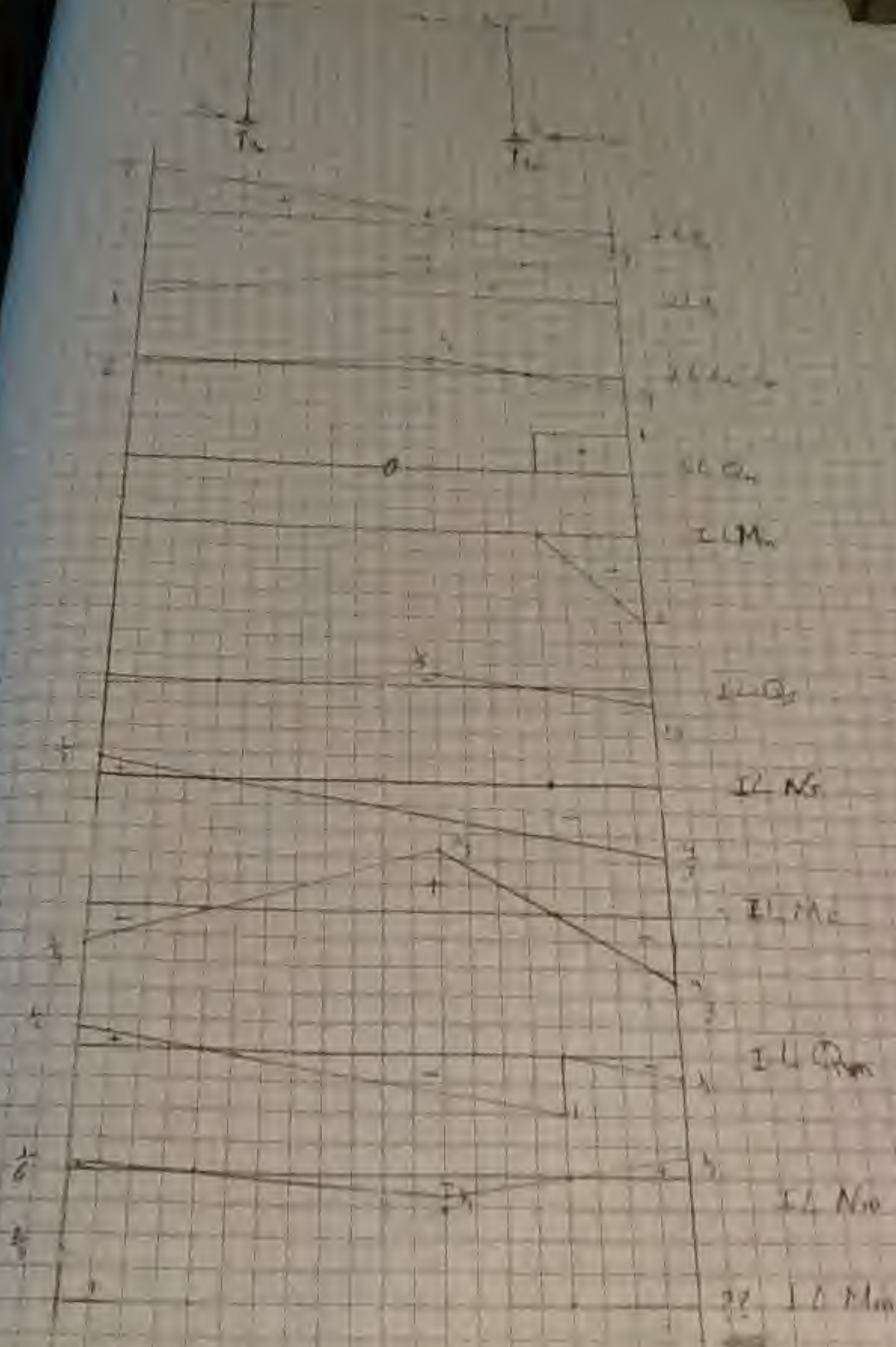
Sec n (Continued)

Sec S

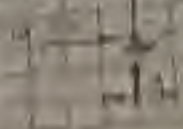
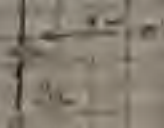
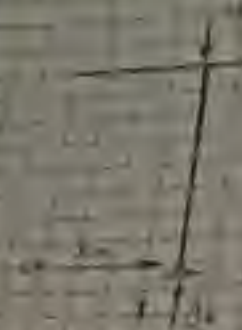


$Q_S = +X_b$   
 $N_S = -Y_b$   
 $M_S = 2X_b$









Section I

1.  $1 = 1 \times 2 = 2$

2.  $1 = 1$

3.  $1 = 1$

4.  $1 = 1$

5.  $1 = 1$

6.  $1 = 1$

7.  $1 = 1$

8.  $1 = 1$

Section II

1.  $1 = 1 \times 2 = 2$

2.  $1 = 1$

3.  $1 = 1$  on Continuum

Section III

1.  $1 = 1 \times 2 = 2$

2.  $1 = 1$

3.  $1 = 1$

4.  $1 = 1$

5.  $1 = 1$

6.  $1 = 1 \times 2 = 2$



7.  $1 = 1$

8.  $1 = 1$

9.  $1 = 1$